National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 01st April 2022

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
   Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
   Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
   Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 31.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-मार्च -2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 31st March 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **01-Apr-2022**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	50094	60855	48949	23170	2662	185730
Peak Shortage (MW)	1988	130	563	770	0	3451
Energy Met (MU)	1182	1464	1245	521	50	4463
Hydro Gen (MU)	179	65	97	59	16	417
Wind Gen (MU)	8	62	47	-	-	117
Solar Gen (MU)*	103.67	48.19	111.06	5.07	0.12	268
Energy Shortage (MU)	13.07	5.03	18.65	6.07	0.00	42.82
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53559	64215	59765	23691	2712	199298
Time Of Maximum Demand Met (From NLDC SCADA)	19:59	11:05	14:26	20:46	18:37	10:57

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.071	0.00	3.24	16.76	20.00	74.49	5.51

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	7228	0	152.9	54.2	-1.2	81	4.00
	Haryana	6920	0	145.4	100.0	0.2	119	2.82
	Rajasthan	12096	0	254.4	51.7	-1.0	228	0.88
	Delhi	4588	0	94.9	83.0	-0.4	148	0.00
	UP	19187	860	409.3	161.9	2.6	597	0.68
	Uttarakhand	1999	0	41.1	25.6	0.4	150	0.04
	HP	1573	0	31.0	12.2	-0.7	227	0.00
	J&K(UT) & Ladakh(UT)	2176	250	48.8	30.1	4.3	369	4.65
	Chandigarh	220	0	4.3	4.8	-0.4	19	0.00
WR	Chhattisgarh	5014	0	117.3	55.4	-0.7	152	0.58
	Gujarat	19301	0	426.2	211.1	0.9	675	0.00
	MP	12443	0	261.6	138.0	-2.1	354	0.00
	Maharashtra	27853	460	603.3	170.1	0.6	1093	1.78
	Goa	684	0	14.9	13.9	0.6	104	0.05
	DD	317	0	7.3	7.0	0.3	79	0.00
	DNH	756	92	17.5	17.0	0.5	101	2.62
	AMNSIL	763	0	16.3	10.3	-0.2	230	0.00
SR	Andhra Pradesh	11556	694	221.5	96.0	5.9	1518	18.65
	Telangana	13982	0	277.6	135.5	-1.2	588	0.00
	Karnataka	13875	0	274.6	77.1	-1.7	712	0.00
	Kerala	4294	0	89.2	55.9	-0.7	185	0.00
	Tamil Nadu	16842	0	372.5	238.1	-0.8	494	0.00
	Puducherry	437	0	9.4	9.7	-0.4	66	0.00
ER	Bihar	5632	0	114.5	105.2	1.6	355	1.75
	DVC	3488	0	78.5	-48.8	-0.8	191	0.00
	Jharkhand	1489	0	31.5	25.9	-0.3	184	4.32
	Odisha	5097	0	109.1	46.7	3.1	549	0.00
	West Bengal	8765	0	186.3	49.5	0.6	386	0.00
	Sikkim	109	0	1.7	1.8	-0.2	25	0.00
NER	Arunachal Pradesh	135	0	2.2	2.7	-0.6	4	0.00
	Assam	1534	0	27.3	22.8	-0.3	79	0.00
	Manipur	207	0	2.5	2.7	-0.2	14	0.00
	Meghalaya	366	0	6.5	5.0	-0.2	82	0.00
	Mizoram	117	0	1.6	1.6	-0.4	10	0.00
	Nagaland	142	0	2.2	2.2	-0.1	12	0.00
	Tripura	261	0	4.5	4.3	-0.1	27	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.3	-8.1	-26.1
Day Peak (MW)	708.0	-659.5	-1109.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	106.5	-196.7	204.7	-112.2	-2.3	0.0
Actual(MU)	99.0	-192.7	201.4	-106.3	-6.0	-4.7
O/D/U/D(MU)	-7.6	4.0	-3.3	5.9	-3.8	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3320	12262	6568	1621	535	24306	44
State Sector	8864	12958	5812	2748	11	30393	56
Total	12184	25220	12380	4369	546	54698	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	711	1440	667	601	16	3435	75
Lignite	20	13	42	0	0	75	2
Hydro	179	65	97	59	16	417	9
Nuclear	32	33	47	0	0	111	2
Gas, Naptha & Diesel	22	18	8	0	30	78	2
RES (Wind, Solar, Biomass & Others)	145	111	192	5	0	453	10
Total	1109	1681	1053	665	62	4570	100

Share of RES in total generation (%)	13.10	6.62	18.21	0.76	0.19	9.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.11	12.45	31.87	9.58	26.56	21.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.061

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 01-Apr-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	194	331	0.0	0.7	-0.7
4	765 kV	SASARAM-FATEHPUR	1	0	241	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	0	618	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	33	51	0.0	0.3	-0.3
7	400 kV	PUSAULI -ALLAHABAD	1	63	57	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	199	433	0.0	4.5	-4.5
9	400 kV	PATNA-BALIA	2	0	577	0.0	9.5	-9.5
10	400 kV	NAUBATPUR-BALIA	2	0	645	0.0	11.6	-11.6
11	400 kV	BIHARSHARIFF-BALIA	2	24	348	0.0	3.4	-3.4
12	400 kV	MOTIHARI-GORAKHPUR	2	215	253	0.1	0.0	0.1
13	400 kV	BIHARSHARIFF-VARANASI	2	63	185	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	143	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.3	49.1	-48.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	783	0	9.6	0.0	9.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	850	46	11.5	0.0	11.5
3	765 kV	JHARSUGUDA-DURG	2	6	256	0.0	2.8	-2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	334	0.0	3.8	-3.8
5	400 kV	RANCHI-SIPAT	2	161	74	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	164	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	212	9	2.2	0.0	2.2
					ER-WR	25.0	9.0	16.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	711	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	44.7	-44.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3000	0.0	55.2	-55.2
4	400 kV	TALCHER-I/C	2	414	152	0.5	0.0	0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	116.1	-116.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	237	118	0.7	1.2	-0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	290	233	0.0	1.5	-1.5
3	220 kV	ALIPURDUAR-SALAKATI	2	44	43	0.0	0.3	-0.3
					ER-NER	0.7	2.9	-2.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	353	0.0	8.5	-8.5
					NER-NR	0.0	8.5	-8.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1003	0.0	23.7	-23.7
2	HVDC	VINDHYACHAL B/B	-	447	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	251	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1082	0.0	14.9	-14.9
5	765 kV	GWALIOR-PHAGI	2	164	1165	0.2	15.5	-15.3
6	765 kV	JABALPUR-ORAI	2	0	610	0.0	19.2	-19.2
7	765 kV	GWALIOR-ORAI	1	595	0	10.5	0.0	10.5
8	765 kV	SATNA-ORAI	1	0	827	0.0	16.4	-16.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1837	0	31.1	0.0	31.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2670	0.0	48.2	-48.2
11	400 kV	ZERDA-KANKROLI	1	418	0	7.1	0.0	7.1
12	400 kV	ZERDA -BHINMAL	1	644	0	9.0	0.0	9.0
13	400 kV	VINDHYACHAL -RIHAND	1	979	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	560	60	4.9	0.1	4.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	126	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	81	0	1.9	0.0	1.9
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	99.9	144.1	-44.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	14.9	-14.9
2	HVDC	RAIGARH-PUGALUR	2	0	4017	0.0	75.7	-75.7
3	765 kV	SOLAPUR-RAICHUR	2	380	1902	0.3	16.5	-16.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3040	0.0	46.5	-46.5
5	400 kV	KOLHAPUR-KUDGI	2	1307	678	18.4	0.1	18.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	133	2.8	0.0	2.8
					WR-SR	21.4	153.6	-132.1

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	225	145	162	3.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	391	218	281	6.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	97	21	49	1.2
	NER	132kV GELEPHU-SALAKATI	8	0	4	0.1
	NER	132kV MOTANGA-RANGIA	32	3	16	0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-69	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-364	-9	-170	-4.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-218	24	-96	-2.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-940	-932	-938	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-169	0	-151	-3.6